

H-FLEX PWR C-PUR 0,6/1kV

Screened power and control cable for flexible use




DESIGN:
HELKAMA specification

- 1. Conductor**
 - stranded copper conductor 1,0-300mm² IEC 60228:2004 class5
 - tinned stranded copper conductor on request
- 2. Insulation**
 - XLPE plastic
- 3. Bedding**
 - non-woven separator tape
- 4. Screen**
 - copper wire braid, coverage > 94%
 - tinned copper wire braid on request
- 5. Sheath**
 - Polyurethane compound
 - standard colour black, other colours on request

CE **RoHS**

Flame-retardant	●
Oil & chemical resistant	●
Halogen-free	●
Mud resistant	●

Application: The cable is intended for flexible, portable, movable applications. Applications such as ship to shore cable, outdoor cranes and various industrial applications. It is suitable for flexible applications in machineries, machine tools, robot technics and can be submersed into water. The cable has good mechanical characteristics, high tensile strength, is abrasion resistant and resistant to UV, chemicals, oil and other fluids. The cable can be coiled back and forth. Suitable to dragchain use. Mud resistant according to NEK606.

Main characteristics

Rated voltage

AC 0,6/1kV (1,2kV)

DC 0,9/1,5kV (if voltage to earth does not exceed 0,9kV)

Maximum conductor temperature

90 °C

Flame-retardant

IEC 60332-1-2 -test for single insulated wire

Halogen-free

IEC 60754 series

Mechanical flex test

EN 50396 -conditions according to EN 50525

Oil resistancy

EN 60811-404 -conditions according to EN 50363-10-2

Operating temperature

-60 – +80 °C fixed use

-35 – +80 °C flexible use

Mechanical

Min. bending radius

- fixed: $4 \times d < 25 \text{ mm} < 6 \times d$

- mobile: $8 \times d < 25 \text{ mm} < 10 \times d$

- s-shape deflection: $15 \times d < 25 \text{ mm} < 20 \times d$

Max. tensile load without strength members

15 N/mm² of phases copper cross section

Core identification

Color code for 1...4 (5 if PE conductor) core cable,
number code for 5...37 core cable.

Marine type approvals

DNV-GL, BV and ABS

H-FLEX PWR C-PUR 0,6/1kV		Number of conductors & cross-section n x mm ²	Cross-section of screen mm ²	Nominal outer diameter mm	Approximate weight kg/km	Current Rating A
Part number Normal	G - type					
5400105010	5400105011	1x1,0	3,0	6,5	60	17
5400107010	5400107011	1x1,5	3,0	6,5	65	22
5400108010	5400108011	1x2,5	3,0	7,0	80	30
5400109010	5400109011	1x4	3,1	7,5	95	39
5400110010	5400110011	1x6	3,1	8,0	115	50
5400111010	5400111011	1x10	3,6	9,5	170	71
5400112010	5400112011	1x16	4,1	10,5	230	94
5400113010	5400113011	1x25	4,8	12,5	325	123
5400114010	5400114011	1x35	5,4	13,5	425	153
5400115010	5400115011	1x50	6,3	15,5	580	196
5400116010	5400116011	1x70	7,3	17,5	790	240
5400117010	5400117011	1x95	8,2	19,5	1015	284
5400118010	5400118011	1x120	9,2	21,5	1260	331
5400119010	5400119011	1x150	10,2	24,5	1580	381
5400120010	5400120011	1x185	11,4	26,5	1920	429
5400121010	5400121011	1x240	12,7	30,0	2530	507
5400122010	5400122011	1x300	14,2	33,5	3120	582
5400105020	–	2x1,0	3,6	9,5	100	14
5400107020	–	2x1,5	3,7	10,0	110	19
5400108020	–	2x2,5	4,2	11,0	140	26
5400109020	–	2x4	4,8	12,0	175	33
5400110020	–	2x6	5,4	13,5	265	43
5400111020	–	2x10	6,3	16,0	390	60
5400112020	–	2x16	7,4	18,0	535	80
5400113020	–	2x25	9,2	22,0	800	105
5400114020	–	2x35	10,4	24,0	1035	130
5400115020	–	2x50	12,2	28,0	1425	167
5400116020	–	2x70	14,2	32,5	1960	204
5400105030	5400105031	3x1,0	3,6	10,0	115	12
5400107030	5400107031	3x1,5	4,1	10,5	130	15
5400108030	5400108031	3x2,5	4,5	11,5	170	21
5400109030	5400109031	3x4	5,3	13,0	225	27
5400110030	5400110031	3x6	5,8	14,0	315	35
5400111030	5400111031	3x10	6,8	16,5	475	50
5400112030	5400112031	3x16	8,0	19,0	675	66
5400113030	5400113031	3x25	9,9	24,0	1020	86
5400114030	5400114031	3x35	11,3	25,5	1330	107
5400115030	5400115031	3x50	13,2	30,0	1830	137
5400116030	5400116031	3x70	15,3	34,5	2550	168
5400117030	5400117031	3x95	17,4	38,5	3275	199
5400118030	5400118031	3x120	19,5	43,0	4115	232
5400119030	5400119031	3x150	21,5	49,0	5185	267
5400120030	5400120031	3x185	24,1	54,0	6335	300
5400121030	5400121031	3x240	26,9	61,0	8385	355
5400122030	5400122031	3x300	30,2	68,0	10320	407
5400105040	5400105041	4x1,0	4,1	10,5	135	12
5400107040	5400107041	4x1,5	4,4	11,0	155	15
5400108040	5400108041	4x2,5	5,2	12,5	215	21
5400109040	5400109041	4x4	5,7	14,0	275	27
5400110040	5400110041	4x6	6,4	15,5	385	35
5400111040	5400111041	4x10	7,8	18,0	585	50
5400112040	5400112041	4x16	8,9	21,0	845	66
5400113040	5400113041	4x25	11,0	26,5	1300	86
5400114040	5400114041	4x35	12,6	28,5	1710	107
5400115040	5400115041	4x50	14,6	33,0	2370	137
5400116040	5400116041	4x70	16,9	38,5	3295	168
5400117040	5400117041	4x95	19,5	42,5	4260	199
5400118040	5400118041	4x120	21,5	48,0	5365	232
5400119040	5400119041	4x150	24,3	54,5	6770	267
5400120040	5400120041	4x185	26,7	60,0	8220	300
5400121040	5400121041	4x240	30,6	68,0	10960	355

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Part number Normal	G - type					
5400105050	5400105051	5x1,0	4,4	11,0	160	10
5400107050	5400107051	5x1,5	4,9	12,0	190	13
5400108050	5400108051	5x2,5	5,5	13,5	255	17
5400109050	5400109051	5x4	6,3	15,0	335	23
5400110050	5400110051	5x6	7,1	16,5	465	29
5400111050	5400111051	5x10	8,4	20,0	710	41
5400112050	5400112051	5x16	9,9	23,0	990	55
5400113050	5400113051	5x25	12,2	29,0	1515	71
5400114050	5400114051	5x35	14,1	31,5	2090	89
5400115050	5400115051	5x50	16,4	36,5	2915	114
5400116050	5400116051	5x70	18,8	42,5	4110	139
5400117050	5400117051	5x95	21,4	47,5	5395	165
5400118050	5400118051	5x120	24,1	53,0	6890	192
5400119050	5400119051	5x150	26,8	60,5	8795	221
5400105060	5400105061	6x1,0	4,7	12,0	200	9
5400107060	5400107061	6x1,5	5,4	13,0	215	11
5400108060	5400108061	6x2,5	6,1	14,5	295	15
5400105070	5400105071	7x1,0	4,9	12,0	195	9
5400107070	5400107071	7x1,5	5,4	13,0	230	11
5400108070	5400108071	7x2,5	6,1	14,5	320	15
5400109070	5400109071	7x4	7,8	16,5	435	20
5400110070	5400110071	7x6	7,9	18,5	580	26
5400111070	5400111071	7x10	9,3	22,0	920	37
5400112070	5400112071	7x16	10,9	25,5	1340	49
5400113070	5400113071	7x25	13,6	31,5	2080	64
5400105100	5400105101	10x1,0	6,5	15,5	275	8
5400107100	5400107101	10x1,5	7,2	16,5	320	10
5400108100	5400108101	10x2,5	8,2	18,5	455	14
5400105120	5400105121	12x1,0	6,8	16,0	305	7
5400107120	5400107121	12x1,5	7,5	17,0	355	10
5400108120	5400108121	12x2,5	8,5	19,5	510	13
5400105140	5400105141	14x1,0	7,1	16,5	340	7
5400107140	5400107141	14x1,5	7,9	18,0	400	9
5400108140	5400108141	14x2,5	9,0	20,0	575	12
5400105160	5400105161	16x1,0	7,8	17,0	375	7
5400107160	5400107161	16x1,5	8,4	19,0	445	9
5400108160	5400108161	16x2,5	9,5	21,5	655	12
5400105190	5400105191	19x1,0	8,0	18,0	425	6
5400107190	5400107191	19x1,5	8,9	19,5	500	8
5400108190	5400108191	19x2,5	10,1	22,5	745	11
5400105240	5400105241	24x1,0	9,7	21,5	545	6
5400107240	5400107241	24x1,5	10,7	23,5	640	8
5400108240	5400108241	24x2,5	12,1	26,5	940	10
5400105270	5400105271	27x1,0	9,9	22,0	590	5
5400107270	5400107271	27x1,5	11,0	24,0	705	7
5400108270	5400108271	27x2,5	12,5	27,5	1035	10

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Part number Normal	G - type					
5400105300	5400105301	30x1,0	10,3	22,5	640	5
5400107300	5400107301	30x1,5	11,4	25,0	765	7
5400108300	5400108301	30x2,5	13,0	28,0	1130	9
5400105370	5400105371	37x1,0	11,2	24,5	755	5
5400107370	5400107371	37x1,5	12,4	26,5	910	7
5400108370	5400108371	37x2,5	14,1	30,5	1365	9
—	5430113031	3x25+3x6	13,0	24,5	1240	86
—	5430114031	3x35+3x6	14,8	26,5	1535	107
—	5430115031	3x50+3x10	17,2	30,5	2130	137
—	5430116031	3x70+3x16	20,0	35,5	2985	168
—	5430117031	3x95+3x16	22,5	39,0	3710	199
—	5430118031	3x120+3x25	34,8	44,0	4930	232
—	5430119031	3x150+3x25	39,1	50,0	5960	267
—	5430120031	3x185+3x35	43,1	55,0	7400	300
—	5430121031	3x240+3x50	48,7	62,0	9745	355
—	5430122031	3x300+3x50	53,2	69,5	11760	407